

CLAIMS

I Claim:

1 A liquid oral pharmaceutical composition, comprising:

- a) a proton pump inhibitor; and
- b) at least one buffering agent; wherein if said proton pump inhibitor is omeprazole, it must be present in a concentration greater than 1.2 mg/ml, and if said inhibitor is lansoprazole, it must be present in a concentration greater than 0.3 mg/ml.
- 2. The liquid oral pharmaceutical composition as recited in Claim 1 further comprising a parietal cell activator.

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- 3. The liquid oral pharmaceutical composition as recited in Claim 2 wherein said activator is selected from the group consisting of chocolate, sodium bicarbonate, a calcium salt, peppermint oil, spearmint oil, coffee, tea, cola, caffeine, theophylline, theobromine, at least one amino acid, and combinations thereof.
- 4. The liquid oral pharmaceutical composition as recited in Claim 1 further comprising an anti-foaming agent.

- 5. The liquid oral pharmaceutical composition as recited in Claim 1 further comprising a flavoring agent.
- 6. A liquid oral pharmaceutical composition, 5 comprising:
 - a) a proton pump inhabitor; and
 - b) at least one buffering agent;

wherein said proton pump inhibitor is selected from the group consisting of oméprazole (in a concentration greater than 1.2 mg/ml), lansoprazole (in a concentration greater than 0.3 mg/ml), pantoprazole, rabeprazole, dontoprazole) perprazole, (habeprazole, ransoprazole, pariprazole, and leminoprazole.

7. A solid oral comprising:

pharmaceutical composition,

- a) a proton pump inhibitor; and
- b) at least one buffering agent;

wherein said composition is in a dosage form selected from the group consisting of a powder, a tablet, a suspension tablet, a chewable tablet, a capsule, an effervescent powder, an effervescent tablet, pellets and granules, and wherein said dosage form is not enteric coated or time released.

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- 8. The solid oral pharmaceutical composition as recited in Claim 7 further comprising a parietal cell activator.
- 9. The solid oral pharmaceutical composition as recited in Claim 7 further comprising an anti-foaming agent.
- 10. The solid oral pharmaceutical composition as recited in Claim 7 wherein said composition is in the form of a tablet, said tablet comprising a central core of said proton pump inhibitor uniformly surrounded by the at least one buffering agent.
- 15 11. The tablet composition as recited in Claim 10 wherein the buffering agent is sodium bicarbonate in an amount of approximately 1 mEq to approximately 25 mEq.
- 12. The solid oral pharmaceutical composition as recited in Claim 7 wherein said composition is in the form of a tablet, said tablet comprising a substantially homogeneous mixture of said proton pump inhibitor and said at least one buffering agent.

- 13. The tablet composition as recited in Claim 12 wherein the buffering agent is sodium bicarbonate in an amount of approximately 1 mEq to/approximately 25 mEq.
- The solid oral pharmaceutical composition as recited in Claim 7 wherein said composition is in the form of an effervescent tablet, said tablet further comprising an effervescing agent.
- A method of treating gastric acid disorders 10 administering to comprising a patient an oral pharmaceutical compositi ϕ n comprising a proton pump inhibitor and at least one buffering agent wherein said administering step comprises providing a patient with a single_dose_of/ the pharmaceutical composition without requiring further administration of the at least one buffering agent.

16 A kit for the preparation of a liquid oral pharmaceutical/composition, comprising: 20

- a) a powder comprising a proton pump inhibitor; and
- b) a liquid buffering agent to be mixed with said powder to form said liquid composition.

A kit for the preparation of a liquid oral pharmaceutical composition, comprising a proton pump inhibitor in combination with at least one buffering agent, said combination in a dry form, and a diluent to be mixed with said dry form to create said composition.

An oral pharmaceutical composition to be administered in combination with a proton pump inhibitor, comprising at least one buffering agent, wherein said composition is in a dosage form selected from the group consisting of a powder, a tablet, a chewable tablet, a capsule, an effervescent powder, an effervescent tablet, pellets and granules, and wherein said dosage form is not enteric coated or time-released.

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- 19. The oral pharmaceutical composition of Claim 18 further comprising a parietal cell activator.
- 20. The oral pharmaceutical composition of Claim 18 20 further comprising a flavoring agent.

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21 A method for enhancing the pharmacological activity of a proton pump inhibitor intravenously administered to a patient, comprising orally administering to the patient at least one parietal cell activator at a time interval selected from the group consisting of before, during and after the intravenous administration of the proton pump inhibitor.

22. The method as recited in claim 21 wherein the parietal cell activator is selected from the group consisting of chocolate, sodium bicarbonate, a calcium salt, peppermint oil, spearmint oil, coffee, tea, cola, caffeine, theophylline, theobromine, at least one amino acid, and combinations thereof.